

**Lane Construction Corporation
Waldo County
Prospect, Maine
A-49-71-G-M**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #1**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

1. The Lane Construction Corporation (Lane), located in Prospect, Maine was issued Air Emission License A-49-71-F-N on August 30, 1999 permitting the operation of emission sources associated with their hot mix asphalt plant, concrete batch plant, and their crushed stone and gravel facility.
2. Lane has requested a minor revision to their license in order to install a new 2 MMBtu/hr heater associated with their asphalt batch plant.

B. Emission Equipment

Lane is authorized to operate the following equipment:

Fuel Burning Equipment

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>
Heater (H1)	2.0	14.6	#2 fuel oil, 0.5%

C. Application Classification

This amendment will increase emissions by less than 4 tons/year for each single pollutant and less than 8 tons/year for all pollutants combined. Therefore, this modification is determined to be a minor revision and has been processed as such.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Air Regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Air Regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. Heater (H1)

H1 is a small heater to be used in conjunction with the asphalt batch plant. The asphalt plant has two fuel tanks, one for specification waste oil and one for #2 fuel oil with a sulfur limit of 0.5%. This heater will be fed from the same #2 fuel oil tank as the asphalt plant. Lane has not requested an increase in fuel usage.

H1 has a heat input of less than 10 MMBtu/hr, and is therefore not subject to the New Source Performance Standards (NSPS) Subpart Dc for steam generating units greater than 10 MMBtu/hr manufactured after June 9, 1989.

A summary of the BACT analysis for H1 (2.0 MMBtu/hr) is the following:

1. The total fuel use for the asphalt batch plant and H1 combined shall not exceed 750,000 gal/year of #2 fuel oil, based on a 12 month rolling total, with a maximum sulfur content not to exceed 0.5% by weight.
2. Chapter 106 regulates fuel sulfur content, however in this case a BACT analysis for SO₂ determined a more stringent limit of 0.5% was appropriate and shall be used.
3. The PM and PM₁₀ limits are derived from Chapter 103.
4. NO_x emission limits are based on data from similar #2 fired equipment of this size and age.
5. CO and VOC emission limits are based upon AP-42 data dated 9/98.
6. Visible emissions from H1 shall not exceed 20% opacity on a 6 minute block average, except for no more than 2 six minute block averages in a continuous 3 hour period.

C. Annual Emission Restrictions

Lane shall be restricted to the following annual emissions, based on a 12 month rolling total:

Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

<u>Pollutant</u>	<u>Tons/Year</u>
PM	6.8
PM ₁₀	6.8
SO ₂	38.3
NO _x	33.4
CO	11.5
VOC	6.9

III.AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a minor new source shall be determined on a case-by case basis.

Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

The Department hereby grants Air Emission License Minor Revision A-49-71-G-M, subject to the conditions found in Air Emission License A-49-71-F-N and in addition to the following conditions:

(24) Heater (H1)

- A. Capacity shall not exceed 2.0 MMBtu/hr for H1.
- B. Fuel use shall not exceed 750,000 gal/yr of #2 fuel oil (12 month rolling total) with a maximum sulfur content not to exceed 0.5% by weight for the asphalt batch plant and H1 combined. Fuel records, including gallons used and percent sulfur, shall be maintained on a monthly basis, in addition to the 12 month rolling total.

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C. Emissions shall not exceed the following:

Equipment		PM	PM ₁₀	SO ₂	NO _x	CO	VOC
H1	lb/MMBtu	0.12	-	-	-	-	-
	lb/hr	0.24	0.24	1.00	0.60	0.07	0.01

D. Visible emissions from H1 shall not exceed 20% opacity on a 6 minute block average, except for no more than 2 six minute block averages in a continuous 3 hour period.

(25) This amendment shall expire concurrently with Air Emission License A-49-71-F-N.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2000.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 10/18/00

Date of application acceptance: 10/18/00

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.